

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P190965

Luminaire Tested: **GAN-AF-07-LED-U-AFL-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190965
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-AFL-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35698.9 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

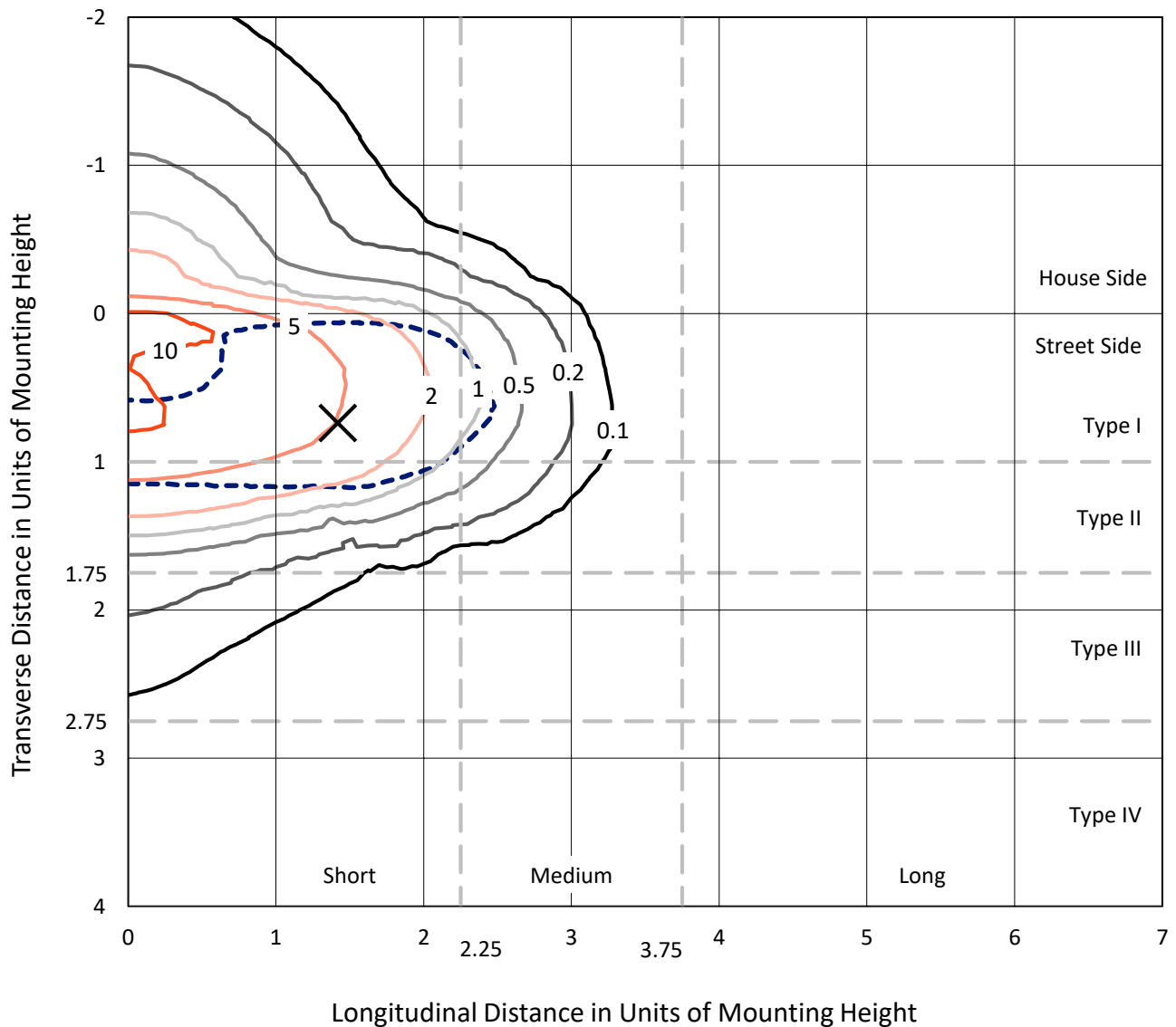
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

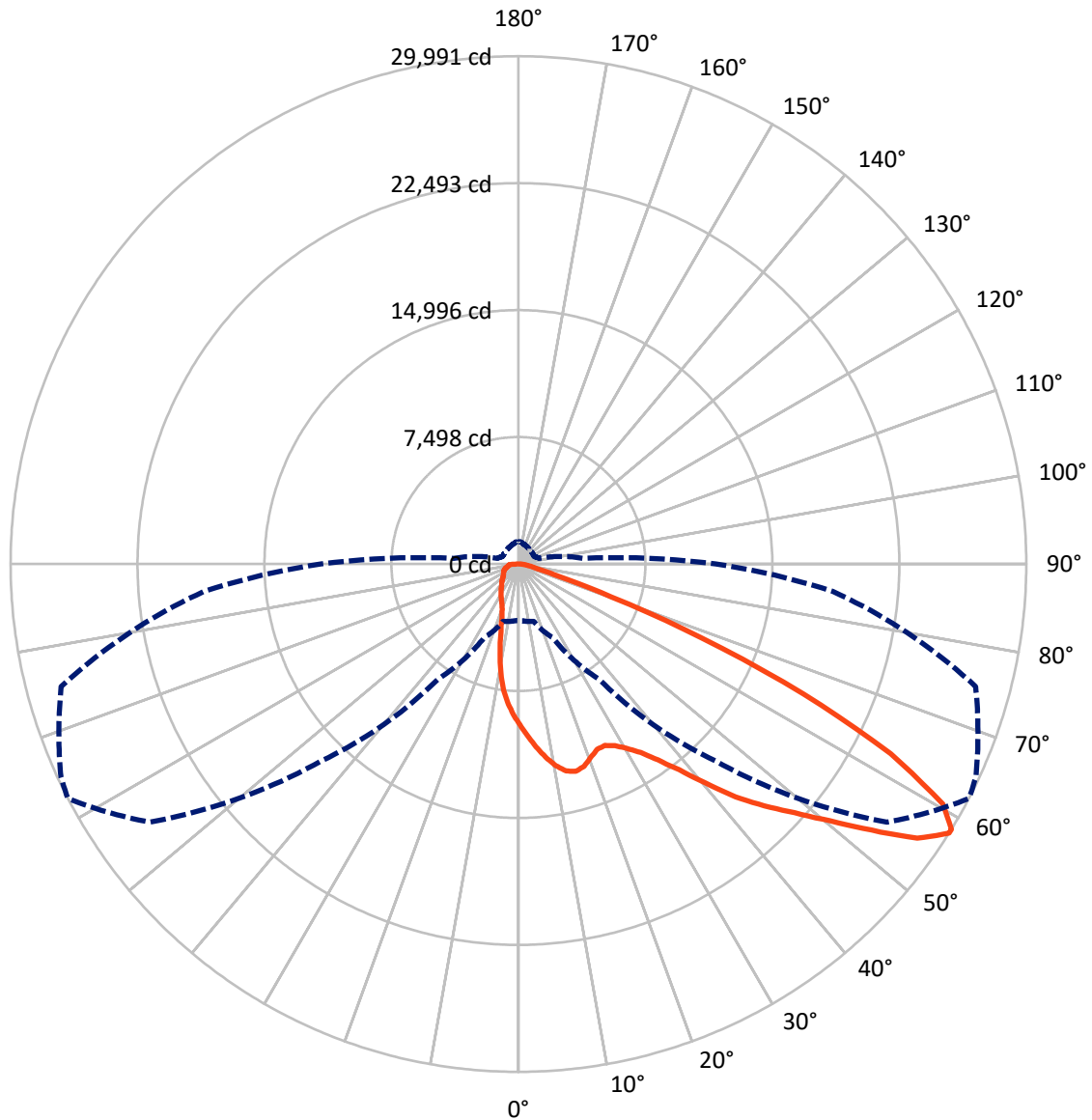
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5444.2	0.0	5444.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	30254.7	0.0	30254.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	35698.9	0.0	35698.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	848.1	2.4
10°-20°	2167.8	6.1
20°-30°	3504.4	9.8
30°-40°	5563.2	15.6
40°-50°	8140.1	22.8
50°-60°	8513.9	23.8
60°-70°	5030.0	14.1
70°-80°	1417.0	4.0
80°-90°	514.4	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	35698.9	100.0
0°-180°	35698.9	100.0



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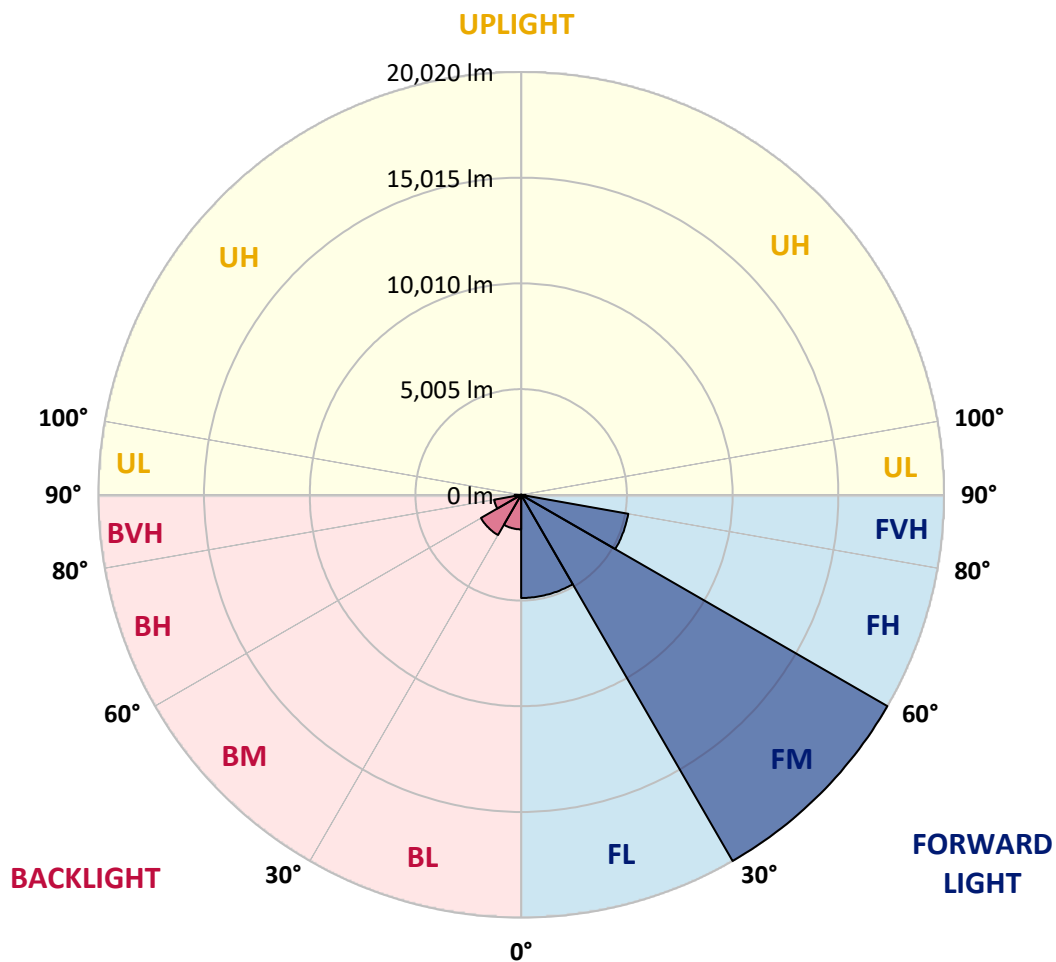
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4884.1	13.7			
FM (30°-60°)	20019.8	56.1			
FH (60°-80°)	5147.9	14.4			G3/7500
FVH (80°-90°)	202.9	0.6			G2/225
BL (0°-30°)	1636.3	4.6	B3/2500		
BM (30°-60°)	2197.4	6.2	B2/2500		
BH (60°-80°)	1299.0	3.6	B3/2500		G3/2500
BVH (80°-90°)	311.5	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	9482.7	9482.7	9482.7	9482.7	9482.7	9482.7	9482.7	9482.7	9482.7	9482.7	9482.7
2.5°	10835.9	10748.6	10693.0	10644.3	10580.4	10444.2	10261.0	10145.0	10086.2	9886.1	9649.1
5°	11898.4	11821.0	11763.8	11698.3	11584.0	11370.5	11074.7	10839.3	10723.3	10323.2	9849.2
7.5°	11649.6	11681.5	11780.7	11953.8	12101.7	12073.2	11809.3	11510.0	11357.0	10800.6	10081.2
10°	10150.0	10205.6	10377.0	10782.1	11437.7	12110.1	12315.2	12108.5	11953.8	11273.0	10319.8
12.5°	9849.2	9847.4	9860.9	9968.6	10358.5	11304.9	12332.1	12540.5	12448.1	11723.5	10563.6
15°	9971.8	9975.2	9965.2	10010.5	10131.6	10506.4	11817.6	12706.9	12772.5	12177.4	10815.8
17.5°	10294.7	10286.2	10247.6	10247.6	10291.3	10437.5	11212.5	12552.2	12854.8	12579.1	11037.6
20°	10835.9	10797.2	10694.7	10600.5	10553.5	10632.6	10963.7	12195.9	12712.0	12930.5	11220.8
22.5°	11491.5	11461.2	11294.8	11093.1	10930.0	10928.4	11091.4	11884.8	12464.9	13261.6	11375.5
25°	12338.7	12290.0	12042.9	11720.2	11434.3	11325.1	11370.5	11869.8	12330.3	13621.4	11513.4
27.5°	13334.0	13244.9	12952.3	12486.6	12066.4	11846.2	11780.7	12143.8	12453.1	14066.9	11705.0
30°	14540.9	14438.3	14063.5	13456.6	12863.3	12501.8	12362.3	12629.6	12859.9	14609.9	12012.6
32.5°	15914.4	15766.4	15332.7	14663.6	13883.6	13332.2	13105.3	13271.8	13455.0	15263.8	12397.7
35°	17812.2	17635.7	17008.7	16085.8	15204.9	14446.8	14083.7	14204.7	14382.9	16238.7	12954.0
37.5°	19106.6	19027.6	18610.6	17743.3	16785.1	15912.6	15351.2	15421.8	15522.7	17457.5	13666.8
40°	19094.8	19126.7	19135.2	19143.6	18491.4	17655.8	17052.4	16978.4	16958.3	18795.6	14477.0
42.5°	18138.4	18269.5	18693.1	19552.1	19948.8	19565.5	19012.5	18799.0	18693.1	20372.4	15336.1
45°	16674.1	16744.8	17538.2	19215.8	20695.2	21456.7	21038.1	20365.7	20174.0	21821.5	16048.8
47.5°	15919.4	15996.7	16496.0	18324.9	20686.7	22984.8	23226.8	21945.9	21602.9	23082.3	16664.1
50°	14122.3	14283.8	14912.5	16775.0	19932.0	23687.4	25514.6	23828.6	23119.2	24309.4	17281.0
52.5°	10822.5	11071.3	11775.6	14226.6	18017.3	23339.4	27345.3	26111.4	25109.6	25580.2	17810.5
55°	6826.7	7011.6	7603.3	10047.5	14413.2	21528.9	28039.6	28580.9	27689.9	26783.8	18269.5
57.5°	3711.7	3794.1	4016.0	5547.4	9375.1	17526.4	27027.6	29986.3	29616.4	27806.0	18615.8
58°	3321.7	3377.2	3515.1	4807.8	8314.3	16432.1	26578.8	29991.3	29806.3	27955.5	18642.7
60°	2464.4	2435.9	2313.1	2743.5	4627.8	11352.0	23865.6	28791.1	29334.0	28138.8	18511.5
62.5°	2165.2	2096.2	1845.8	1817.2	2250.9	5229.7	18261.0	24662.4	25945.0	27093.2	17714.7
65°	2034.0	1960.1	1637.3	1533.1	1623.8	2212.2	10756.9	18496.4	20105.2	23922.7	15677.3
67.5°	1936.5	1840.7	1504.6	1361.6	1368.4	1462.5	4311.8	11649.6	13460.0	18163.5	12194.2
70°	1842.4	1738.2	1391.9	1227.1	1188.5	1156.5	1714.7	5831.5	7473.9	11473.0	7774.7
72.5°	1741.6	1639.0	1292.7	1121.3	1045.6	939.7	1119.5	2385.4	3331.9	5428.1	3526.8
75°	1595.3	1502.8	1193.6	1027.1	919.5	778.4	845.6	1245.6	1494.4	2161.8	1699.5
77.5°	1415.5	1339.8	1082.6	949.8	815.3	632.1	650.6	864.1	958.2	1237.3	1010.3
80°	1017.0	1043.9	963.2	854.0	726.2	512.7	499.3	630.3	680.8	795.1	657.2
82.5°	714.4	729.6	796.8	697.7	600.2	403.5	368.2	443.8	474.0	522.8	354.7
85°	492.6	475.8	546.4	485.8	433.7	268.9	252.2	301.0	319.4	324.5	183.2
87.5°	295.8	295.8	316.0	260.5	233.6	139.5	136.2	171.4	183.2	174.8	100.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9482.7	9482.7	9482.7	9482.7	9482.7	9482.7	9482.7	9482.7	9482.7	9482.7	9482.7
2.5°	9507.9	9388.5	9134.7	8931.3	8674.1	8406.8	8257.3	8097.6	7988.2	7909.3	8035.3
5°	9580.2	9336.5	8812.0	8314.3	7764.7	7193.1	6759.5	6356.0	6075.2	5900.4	6065.2
7.5°	9694.5	9319.6	8484.1	7633.6	6646.8	5695.4	4844.7	4311.8	4000.9	3847.8	3943.7
10°	9825.6	9292.7	8099.2	6710.7	5298.6	4100.0	3464.6	3249.4	3178.8	3150.3	3163.7
12.5°	9934.9	9235.6	7626.8	5594.5	3979.0	3237.6	3054.4	3049.4	3064.6	3067.9	3072.9
15°	10012.2	9151.5	6925.9	4431.2	3182.2	2950.2	2940.2	2970.3	2999.0	3010.7	3017.5
17.5°	10064.3	8978.3	6134.1	3503.3	2851.1	2810.7	2834.2	2872.9	2903.1	2911.5	2918.3
20°	10059.3	8724.5	5191.1	2921.6	2671.1	2671.1	2711.5	2741.7	2743.5	2733.3	2738.4
22.5°	10007.2	8376.5	4276.5	2612.3	2511.4	2540.0	2580.4	2551.9	2434.1	2356.8	2361.9
25°	9919.8	7961.3	3493.2	2415.6	2363.5	2414.0	2402.2	2187.1	2018.9	1943.3	1943.3
27.5°	9842.4	7470.5	2891.4	2244.1	2215.6	2277.8	2069.3	1874.4	1803.8	1768.5	1756.7
30°	9787.0	6940.9	2489.7	2079.5	2076.1	2030.7	1795.4	1741.6	1729.8	1701.2	1691.1
32.5°	9800.4	6404.7	2232.4	1934.9	1946.7	1738.2	1664.2	1676.0	1665.9	1635.6	1622.2
35°	9911.4	5895.4	2064.3	1803.8	1768.5	1570.1	1586.9	1608.8	1605.4	1563.4	1549.9
37.5°	10109.7	5412.9	1953.3	1694.5	1543.2	1486.0	1512.9	1546.6	1538.1	1509.6	1499.4
40°	10318.2	4959.1	1862.6	1608.8	1410.3	1428.9	1452.4	1470.9	1479.3	1487.7	1481.0
42.5°	10521.6	4485.0	1751.6	1521.3	1354.9	1375.1	1385.2	1403.7	1449.0	1481.0	1479.3
45°	10642.6	4039.5	1637.3	1396.9	1311.2	1323.0	1316.2	1353.3	1408.7	1460.8	1462.5
47.5°	10777.1	3693.3	1546.6	1282.6	1269.2	1277.6	1257.4	1294.4	1344.9	1408.7	1415.5
50°	10940.2	3486.4	1474.3	1191.8	1212.0	1212.0	1207.0	1240.6	1311.2	1385.2	1398.6
52.5°	11125.1	3446.1	1413.7	1126.3	1154.9	1153.2	1158.2	1208.6	1286.0	1358.3	1370.0
55°	11350.4	3555.4	1348.1	1077.6	1099.4	1106.1	1122.9	1180.1	1245.6	1328.0	1333.0
57.5°	11612.5	3777.2	1296.1	1038.9	1048.9	1070.8	1097.7	1149.8	1220.4	1311.2	1316.2
58°	11656.3	3824.3	1287.7	1035.5	1038.9	1064.1	1094.4	1144.8	1215.4	1314.6	1319.6
60°	11658.0	3980.7	1269.2	1020.4	1000.2	1042.3	1075.8	1126.3	1207.0	1326.4	1338.1
62.5°	11244.4	3979.0	1255.8	998.5	959.8	1012.0	1050.7	1109.5	1198.6	1354.9	1378.4
65°	9901.2	3615.9	1191.8	964.9	927.9	985.1	1028.8	1097.7	1222.1	1479.3	1494.4
67.5°	7744.6	2963.7	1072.5	917.9	885.9	958.2	1015.4	1096.0	1247.3	1507.9	1518.0
70°	5120.4	2217.2	941.4	864.1	842.2	926.3	1022.0	1153.2	1218.7	1447.4	1420.5
72.5°	2657.7	1556.6	835.4	796.8	791.8	897.6	1119.5	1146.4	1190.2	1361.6	1328.0
75°	1395.3	1081.0	743.0	722.8	731.2	891.0	1321.2	1116.2	1153.2	1302.8	1366.7
77.5°	854.0	872.5	664.0	655.6	672.4	870.7	1319.6	1077.6	1099.4	1198.6	1269.2
80°	571.5	707.7	603.5	605.2	616.9	796.8	1185.1	1017.0	1033.8	1133.0	1205.3
82.5°	361.4	418.6	548.0	576.6	561.5	657.2	1006.9	926.3	949.8	1296.1	1370.0
85°	183.2	262.3	475.8	554.7	506.0	460.6	817.0	811.9	823.7	934.7	976.7
87.5°	84.1	144.5	371.5	484.2	381.6	287.4	593.4	601.8	648.9	664.0	664.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)